

DEPARTMENT OF TRANSPORTATION
DIVISION OF NEW TECHNOLOGY, MATERIALS AND RESEARCH
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METHOD OF TEST FOR CONSOLIDATION OF SOILS

CAUTION: Prior to handling test materials, performing equipment setups, and/or conducting this method, testers are required to read "SAFETY AND HEALTH" in Section D of this method. It is the responsibility of whoever uses this method to consult and use departmental safety and health practices and determine the applicability of regulatory limitations before any testing is performed. Users of this method do so at their own risk.

A. SCOPE

The consolidation test is designed to measure the compressibility of soils. In this test a laterally confined, axially drained soil specimen is subjected to a series of constant axial loads. The results of the test are used to compute the quantity of settlement and the rate at which the settlement will occur in foundation soils under imposed loads. While application of consolidation test results for computing settlement is somewhat complex, the actual mechanics of the test are ordinarily routine. The test is, in reality, a model test, and as such, should simulate conditions as they will exist in the field. California Test 219 also includes a procedure for conducting a Soil Collapse Test.

B. CONSOLIDATION TEST

This test is to be done according to ASTM Designation D 2435.

C. SOIL COLLAPSE TEST

The Soil Collapse Test is often done as a part of the consolidation testing under California Test 219. When required, this test shall be done according to ASTM: D 5333.

D. SAFETY AND HEALTH

Prior to handling, testing or disposing of any waste materials, testers are required to read: Part A (Section 5.0), Part B (Sections: 5.0, 6.0 and 10.0) and Part C (Section 1.0) of Caltrans' Laboratory Safety Manual.

REFERENCES:

ASTM Designation: D 2435

End of Text. California Test 219 contains 1 page.